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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/651,385	08/29/2000	Sanjay Dabral	042390.P5258D	9681	
75	90 05/21/2002				
Blakely Sokoloff Taylor & Zafman LLP			EXAMINER		
12400 Wilshire Los Angeles, C.	Boulevard Seventh Flo A 90025	oor	DIAZ, JOSE R		
			ART UNIT	PAPER NUMBER	
			2815		
			DATE MAILED: 05/21/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

·			N ²
	Application No.	Applicant(s)	7
•)	09/651,385	DABRAL ET AL.	
Office Action Summary	Examiner	Art Unit	
	José R. Díaz	2815	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet	with the correspondence address -	•
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may y within the statutory minimum of t will apply and will expire SIX (6) Means the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communica ABANDONED (35 U.S.C. § 133).	ation.
1) Responsive to communication(s) filed on 19	February 2002 .		
2a)⊠ This action is FINAL. 2b)□ Th	nis action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	ance except for formal n Ex parte Quayle, 1935 (natters, prosecution as to the med C.D. 11, 453 O.G. 213.	its is
Disposition of Claims			
4) Claim(s) 20-29 is/are pending in the application			
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>20-29</u> is/are rejected.			
7) Claim(s) is/are objected to.	1		
8) Claim(s) are subject to restriction and/o	or election requirement.		
9) The specification is objected to by the Examine	er		
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		v the Examiner.	
Applicant may not request that any objection to the			
11) The proposed drawing correction filed on			
If approved, corrected drawings are required in re			
12) ☐ The oath or declaration is objected to by the E	xaminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.	C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documen	ts have been received.		
2. Certified copies of the priority documen	ts have been received in	Application No	
3. Copies of the certified copies of the pricapplication from the International B * See the attached detailed Office action for a lis	ureau (PCT Rule 17.2(a)).	;
14) Acknowledgment is made of a claim for domes			cation).
a) ☐ The translation of the foreign language pr 15)⊠ Acknowledgment is made of a claim for domes	ovisional application has	been received.	,
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)	
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DETAILED ACTION

Claim Rejections - 35 USC § 102

➤ The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

➤ Claims 20-23 and 27-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Waggoner et al. (US Patent No. 6,218,706 B1).

Regarding claim 20, Waggoner et al. teach a method of forming a device (see cols. 1-14) comprising the steps of: providing a performance circuit (T₁, T₂); forming a protection circuit (D3); and coupling the protection circuit to the performance circuit (see Figure 8).

Regarding claim 21, Waggoner et al. teach that the performance circuit (T1, T2) is a CMOS device (see Figure 8).

Regarding claims 22-23, Waggoner et al. teach coupling the protection circuit (e.g. diode D3) to a p-channel device (T₂) of the CMOS (see Figure 8).

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Regarding claims 27-29, Waggoner et al. teach forming a unit transistor (T₁, T₂).

Claim Rejections - 35 USC § 103

➤ The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

➤ Claims 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Waggoner et al. (US Patent No. 6,218,706 B1) in view of Yamaguchi et al. (US Patent No. 6,274,908 B1).

Regarding claims 24-26, Waggoner et al. does not teach forming a plurality of unit diodes, wherein each unit diodes is comprised of a block of a first doped region in a well substrate having a first concentration of a second dopant, a third doped region having a second concentration of the second dopant, a junction region, and a contact.

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Yamaguchi et al. teach that is well known in the art to form a unit diode comprised of a block of a first doped region (9C) in a well substrate (10B) having a first concentration of a second dopant, a third doped region (10C) having a second concentration of the second dopant, a junction region (pn junction), and a contact (12B, 12D) (see Figure 11). Furthermore, Yamaguchi et al. teach forming a plurality of unit diodes (see Figure 11). Therefore, it would have been obvious to one having ordinary skill in the art at the same time the invention was made to modify Waggoner et al. to include the step of forming at least a unit diode. The ordinary artisan would have been motivated to modify Waggoner et al. in the manner described above for at least the purpose of improving ESD resistance.

Response to Arguments

Applicant's arguments filed February 8, 2002 have been fully considered but they are not persuasive. Applicant states that the references fail to teach a performance circuit and a protection circuit formed on first and second areas of an integrated circuit substrate. However, the Examiner disagrees. Applicant should note that during patent examination, the pending claims must be "given the broadest reasonable interpretation consistent with the specification" (see MPEP 2111). Thus, broadly speaking the reference Waggoner et al. clearly teaches the limitations in figure 8. For instance, consider the region comprised of T₂ and T₁, e.g. performance circuit, and located between T₄ and V_{SS} as the first area; and the region comprised of D₃, e.g. protection

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circuit, and located between V_{DD} and R_3 as the second area. Therefore, the reference Waggoner et al. anticipates the claimed invention.

Conclusion

> THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to José R. Díaz whose telephone number is (703) 308-6078. The examiner can normally be reached on 9:00 - 5:00 Monday, Tuesday, Thursday and Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 746-3891 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JRD May 20, 2002

> EDDIE LEE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800